Milk Production



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October Milk Production down 0.3 Percent

Milk production in the 24 major States during October totaled 17.7 billion pounds, down 0.3 percent from October 2020. September revised production, at 17.3 billion pounds, was up 0.2 percent from September 2020. The September revision represented a decrease of 37 million pounds or 0.2 percent from last month's preliminary production estimate.

Production per cow in the 24 major States averaged 1,990 pounds for October, 6 pounds below October 2020.

The number of milk cows on farms in the 24 major States was 8.90 million head, 4,000 head more than October 2020, but 15,000 head less than September 2021.

October Milk Production in the United States down 0.5 Percent

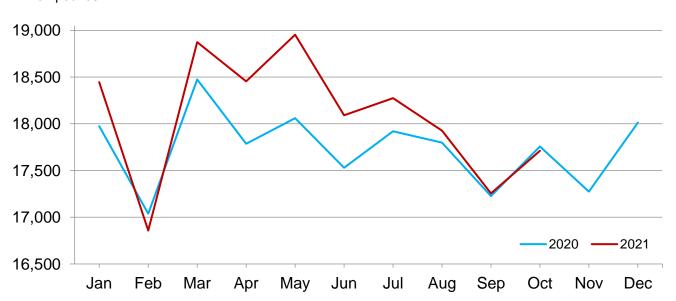
Milk production in the United States during October totaled 18.5 billion pounds, down 0.5 percent from October 2020.

Production per cow in the United States averaged 1,970 pounds for October, 6 pounds below October 2020.

The number of milk cows on farms in the United States was 9.40 million head, 14,000 head below October 2020, and 14,000 head less than September 2021.

Monthly Milk Production - 24 Selected States





Milk Cows and Production by Quarter - United States: 2020-2021

[May not add due to rounding. Blank data cells indicate estimation period has not yet begun]

	Milk cows 1		Milk pe	r cow ²	Milk production ²		
Quarter	2020	2021	2020	2021	2020	2021	Change from 2020
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January-March April-June July-September October-December	9,378 9,364 9,380 9,429	9,458 9,502 9,451	5,990 5,988 5,908 5,892	6,003 6,119 5,913	56,174 56,070 55,419 55,557	56,776 58,141 55,880	1.1 3.7 0.8
Annual	9,388		23,777		223,220		

¹ Includes dry cows. Excludes heifers not yet fresh.

Milk Cows and Production by Month - 24 Selected States: 2020-2021

[May not add due to rounding. Blank data cells indicate estimation period has not yet begun]

	Milk c	ows 1	Milk pe	r cow ²	Milk production ²			
Month	2020	2021	2020	2021	2020	2021	Change from 2020	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)	
January	8,837	8,934	2,034	2,065	17,974	18,446	2.6	
February	8,848	8,947	1,926	1,884	17,038	16,858	-1.1	
March	8,861	8,961	2,085	2,106	18,474	18,873	2.2	
April	8,855	8,985	2,009	2,054	17,787	18,454	3.7	
May	8,838	8,996	2,044	2,107	18,061	18,953	4.9	
June	8,834	8,993	1,984	2,012	17,530	18,091	3.2	
July	8,854	8,989	2,024	2,033	17,919	18,275	2.0	
August	8,857	8,947	2,010	2,004	17,799	17,927	0.7	
September	8,877	8,916	1,941	1,935	17,226	17,255	0.2	
October	8,897	8,901	1,996	1,990	17,758	17,711	-0.3	
November	8,914		1,938		17,274			
December	8,923		2,019		18,012			
Annual	8,866		24,008		212,852			

¹ Includes dry cows. Excludes heifers not yet fresh.

Estimated Milk Cows and Production by Month - United States: 2020-2021

[May not add due to rounding. Blank data cells indicate estimation period has not vet begun]

	Milk cows 1		Milk per	r cow ²	Milk production ²			
Month	2020	2021	2020	2021	2020	2021	Change from 2020	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)	
January	9,365 9,377 9,391 9,377 9,360 9,355 9,372 9,374 9,395 9,414 9,432 9,442	9,445 9,458 9,472 9,496 9,507 9,503 9,492 9,447 9,414	2,016 1,908 2,066 1,993 2,027 1,968 2,001 1,988 1,919 1,976 1,919 1,997	2,047 1,868 2,088 2,036 2,088 1,995 2,013 1,984 1,916 1,970	18,877 17,895 19,402 18,684 18,972 18,414 18,756 18,632 18,031 18,603 18,103 18,851	19,330 17,666 19,780 19,332 19,855 18,954 19,103 18,739 18,038 18,515	2.4 -1.3 1.9 3.5 4.7 2.9 1.9 0.6	

⁻ Represents zero.

² Excludes milk sucked by calves.

² Excludes milk sucked by calves.

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production - 24 Selected States: October 2020 and 2021

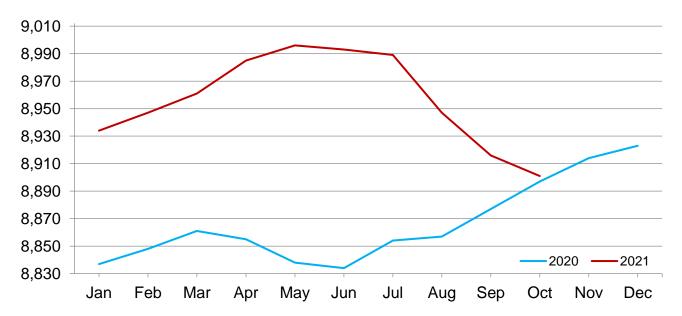
[May not add due to rounding]

	Milk c	ows ¹	Milk pe	r cow ²	Milk production ²			
State	2020	2021	2020	2021	2020	2021	Change from 2020	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)	
Arizona	200	195	2,000	1,975	400	385	-3.8	
California	1,720	1,720	1,965	1,940	3,380	3,337	-1.3	
Colorado	201	199	2,185	2,185	439	435	-0.9	
Florida	112	105	1,525	1,550	171	163	-4.7	
Georgia	81	82	1,740	1,750	141	144	2.1	
Idaho	645	651	2,100	2,100	1,355	1,367	0.9	
Illinois	84	82	1,740	1,735	146	142	-2.7	
Indiana	191	186	1,990	1,985	380	369	-2.9	
lowa	219	225	2,065	2,055	452	462	2.2	
Kansas	172	169	1,985	1,975	341	334	-2.1	
Michigan	431	435	2,270	2,240	978	974	-0.4	
Minnesota	452	461	1,910	1,925	863	887	2.8	
New Mexico	332	298	2,065	2,020	686	602	-12.2	
New York	626	628	2,035	2,050	1,274	1,287	1.0	
Ohio	256	251	1,850	1,820	474	457	-3.6	
Oregon	125	125	1,750	1,750	219	219	-	
Pennsylvania	482	475	1,760	1,730	848	822	-3.1	
South Dakota	140	161	1,955	1,960	274	316	15.3	
Texas	603	625	2,100	2,105	1,266	1,316	3.9	
Utah	95	95	1,950	1,940	185	184	-0.5	
Vermont	120	120	1,765	1,760	212	211	-0.5	
Virginia	74	71	1,660	1,650	123	117	-4.9	
Washington	279	264	2,035	2,005	568	529	-6.9	
Wisconsin	1,257	1,278	2,055	2,075	2,583	2,652	2.7	
24-State Total	8,897	8,901	1,996	1,990	17,758	17,711	-0.3	

⁻ Represents zero.

Monthly Milk Cows - 24 Selected States

Thousand head



¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

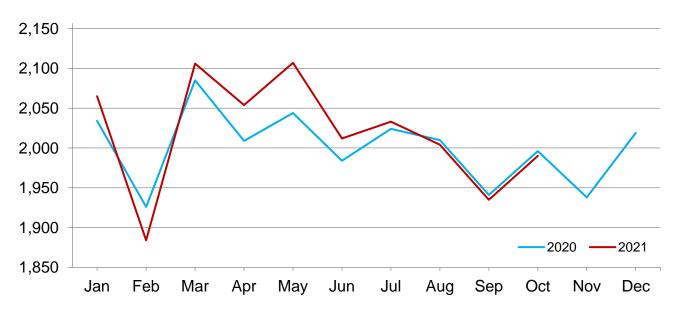
Milk Cows and Production - 24 Selected States: September 2020 and 2021

[May not add due to rounding]

	Milk o	cows 1	Milk pe	r cow ²		Milk production ²	
	2020	2021	2020	2021	2020	2021	Change from 2020
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	200	196	1,845	1,820	369	357	-3.3
California	1,720	1,720	1,905	1,905	3,277	3,277	-
Colorado	200	199	2,145	2,135	429	425	-0.9
Florida	112	105	1,445	1,475	162	155	-4.3
Georgia	80	82	1,650	1,670	132	137	3.8
Idaho	645	651	2,075	2,070	1,338	1,348	0.7
Illinois	84	82	1,645	1,650	138	135	-2.2
Indiana	191	189	1,935	1,900	370	359	-3.0
lowa	219	225	2,005	1,995	439	449	2.3
Kansas	171	170	1,920	1,915	328	326	-0.6
Michigan	430	439	2,220	2,190	955	961	0.6
Minnesota	450	461	1,870	1,870	842	862	2.4
New Mexico	327	300	2,025	1,930	662	579	-12.5
New York	626	628	1,985	2,005	1,243	1,259	1.3
Ohio	254	254	1,790	1,760	455	447	-1.8
Oregon	125	125	1,705	1,710	213	214	0.5
Pennsylvania	482	475	1,690	1,680	815	798	-2.1
South Dakota	140	161	1,905	1,920	267	309	15.7
Texas	598	625	2,025	1,985	1,211	1,241	2.5
Utah	94	95	1,910	1,910	180	181	0.6
Vermont	120	120	1,725	1,725	207	207	-
Virginia	74	72	1,575	1,590	117	114	-2.6
Washington	279	264	2,005	1,975	559	521	-6.8
Wisconsin	1,256	1,278	2,005	2,030	2,518	2,594	3.0
24-State Total	8,877	8,916	1,941	1,935	17,226	17,255	0.2

Monthly Milk Per Cow - 24 Selected States

Pounds



⁻ Represents zero.

1 Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Statistical Methodology

Survey Procedures: Primary data used to determine these estimates were obtained from a sample of producers. Individual States maintain a list of all known milk producers and information on the size of their herd. States use all known sources of producers to ensure that their lists are as complete as possible. Generally, all large producers and a sample of small producers are included in the survey. Questionnaires are mailed to producers near the end of the month to obtain data for the first day of the month. Additional reports are obtained by telephone, as needed, to supplement the mail response. Where feasible, States utilize state and federal administrative data to estimate milk production. This eliminates duplication of data gathering by different government agencies such as Agricultural Marketing Service (AMS) Dairy Market News. Indications of milk cow inventory are also obtained in the January Cattle Survey.

Estimation Procedures: Regional Field Offices prepare these estimates by using a combination of survey indications, historic trends, and any available administrative data. Individual State estimates are reviewed by the Agricultural Statistics Board for reasonableness.

Revision Policy: Milk production, milk per cow, and number of milk cows are subject to revision the following month after initial publication for monthly States or the following quarter for the quarterly States. Normally, administrative data from Federal Market Orders, State Departments of Agriculture, or other sources are the main basis for revisions. However, administrative data for all States may not be available in time for these revisions. Estimates are again subject to revisions in February each year based on additional administrative data. In the event that additional changes are necessary, a third revision is possible in February the following year. Estimates are again reviewed after data from the five-year Census of Agriculture are available. No revisions are made after that date.

Reliability: Since all operations with dairy animals are not included in the sample, survey estimates are subject to sampling variability. Survey results are also subject to non-sampling errors such as omissions, duplications, and mistakes in reporting, recording, and processing the data. The effects of these errors cannot be measured directly. They are minimized through rigid quality controls in the data collection process and through a careful review of all reported data for consistency and reasonableness.

To assist users in evaluating the reliability of the estimates in this report, the "Root Mean Square Error" is shown for selected items in the table below. The "Root Mean Square Error" is a statistical measure based on past performance and is computed using the differences between first and final estimates. The "Root Mean Square Error" for the 24 State milk production estimates over the past 24 months is 0.4 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 17.7 billion pounds by more than 0.4 percent. Chances are 9 out of 10 that the difference will not exceed 0.7 percent.

Reliability of Monthly Milk Production Estimates

[Based on data for the past 24 months]

Item	Root mean square error	90 percent confidence	Difference between first and latest estimate					
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	Square error	level	Average	Smallest	Largest	Below latest	Above latest	
	(percent)	(percent)	(1,000)	(1,000)	(1,000)	(number)	(number)	
Milk production	0.4	0.7	54	0	150	17	6	
All Milk cows	0.1	0.2	10	0	26	18	5	

Information Contacts

Listed below are the commodity specialists in the Livestock Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@usda.gov.

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